

## B2SD2-12C-TF (For SuperServer Only)

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### Key Features

1. Intel® Xeon® D Processor (Skylake-D), Intel® Xeon® Processor D-2163IT.  
Single Socket FCBGA-2518 supported, CPU TDP support 75W TDP

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2. Up to 128GB Registered ECC RDIMM, DDR4-2133MHz, in 4 DIMM slots

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3. 1 PCI-E 3.0 x4  
**M.2 Interface:** 1 PCI-E 3.0 x4  
**M.2 Form Factor:** 2242/2280/22110  
**M.2 Key:** M-Key  
U.2 Interface: 1 PCI-E 3.0 x4

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4. Dual LAN with SoC  
Two(2)10GbE Ethernet ports from KR interface to BP

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5. System on Chip

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# Specifications

## Product SKUs

<b>MBD-B2SD2-12C-TF</b>	<ul style="list-style-type: none"> <li>B2SD2-12C-TF</li> </ul>
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## Physical Stats

<b>Form Factor</b>	<ul style="list-style-type: none"> <li>Proprietary</li> </ul>
<b>Dimension</b>	<ul style="list-style-type: none"> <li>4.94" x 1.2" (12.55cm x 3.05cm)</li> </ul>

## Processor

<b>CPU</b>	<ul style="list-style-type: none"> <li>Intel® Xeon® Processor D-2163IT, Intel® Xeon® D Processor (Skylake-D)</li> <li>Single Socket FCBGA-2518 supported, CPU TDP supports Up to 75W TDP</li> </ul>
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<b>Core</b>	<ul style="list-style-type: none"> <li>Up to 12 cores, 24 threads / 17MB Cache</li> </ul>
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## System Memory

<b>Memory Capacity</b>	<ul style="list-style-type: none"> <li>4 DIMM slots</li> <li>Up to 128GB ECC RDIMM, DDR4-2133MHz</li> </ul>
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<b>Memory Type</b>	<ul style="list-style-type: none"> <li>2133/2400MHz ECC DDR4 RDIMM VLP</li> </ul>
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<b>DIMM Sizes</b>	<ul style="list-style-type: none"> <li>8GB, 16GB, 32GB</li> </ul>
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<b>Memory Voltage</b>	<ul style="list-style-type: none"> <li>1.2V</li> </ul>
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## On-Board Devices

<b>Chipset</b>	<ul style="list-style-type: none"> <li>System on Chip</li> </ul>
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<b>IPMI</b>	<ul style="list-style-type: none"> <li>ASPEED AST2500</li> </ul>
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<b>Graphics</b>	<ul style="list-style-type: none"> <li>ASPEED AST2500 BMC</li> </ul>
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<b>Network Controllers</b>	<ul style="list-style-type: none"> <li>Dual LAN with SoC, Two(2)10GbE Ethernet ports from KR interface to BP</li> </ul>
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## Input / Output

<b>SATA</b>	<ul style="list-style-type: none"> <li>1 SATA3 (6Gbps) port(s)</li> </ul>
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<b>DOM</b>	<ul style="list-style-type: none"> <li>1 SATA <b>DOM</b> (Disk on Module) power connector support</li> </ul>
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<b>TPM</b>	<ul style="list-style-type: none"> <li>1 TPM Header &amp; Chip both</li> </ul>
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## Expansion Slots

<b>PCI-E</b>	<ul style="list-style-type: none"> <li>1 PCI-E 3.0 x4</li> </ul>
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<b>M.2</b>	<ul style="list-style-type: none"> <li>M.2 Interface: 1 PCI-E 3.0 x4</li> <li>Form Factor: 2242/2280/22110</li> <li>Key: M-Key</li> </ul>
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## System BIOS

<b>BIOS Type</b>	<ul style="list-style-type: none"> <li>256MB SPI Flash with AMI BIOS</li> </ul>
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<b>BIOS Features</b>	<ul style="list-style-type: none"> <li>ACPI 6.1</li> <li>UEFI 2.7</li> <li>SMBIOS 2.8</li> <li>SMBIOS 3.1</li> <li>PCI FW 3.2</li> <li>Plug and Play (PnP)</li> </ul>
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## Management

<b>Software</b>	<ul style="list-style-type: none"> <li>SuperDoctor® 5, NMI, <a href="#">SUM</a>, <a href="#">SPM</a>, Intel® Node Manager, <a href="#">SSM</a>, <a href="#">IPMI2.0</a>, Watchdog</li> </ul>
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<b>System Management Software</b>	<ul style="list-style-type: none"> <li>IPMI (Intelligent Platform Management Interface) v1.5 / 2.0 with KVM support</li> </ul>
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<b>Power Configurations</b>	<ul style="list-style-type: none"> <li>+12V DC Power Input</li> </ul>
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## PC Health Monitoring

<b>Voltage</b>	<ul style="list-style-type: none"> <li>VBAT, Monitors CPU voltages, +12V, Memory Voltages</li> </ul>
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<b>LED</b>	<ul style="list-style-type: none"> <li>UID/Remote UID</li> <li>Power LED</li> </ul>
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<b>Other Features</b>	<ul style="list-style-type: none"> <li>Control of power-on for recovery from AC power loss</li> <li>ACPI power management</li> </ul>
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## Parts List

Parts List (Bulk Package)			
Name	Part Number	Qty	Description
Motherboard	MBD-B2SD2-12C-TF	1	B2SD2-12C-TF Motherboard

### Server (Optimized for B2SD2-12C-TF)

Server Name
<u>MBI-6219B-T63N</u>

